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# THE Fats and Oils SITUATION

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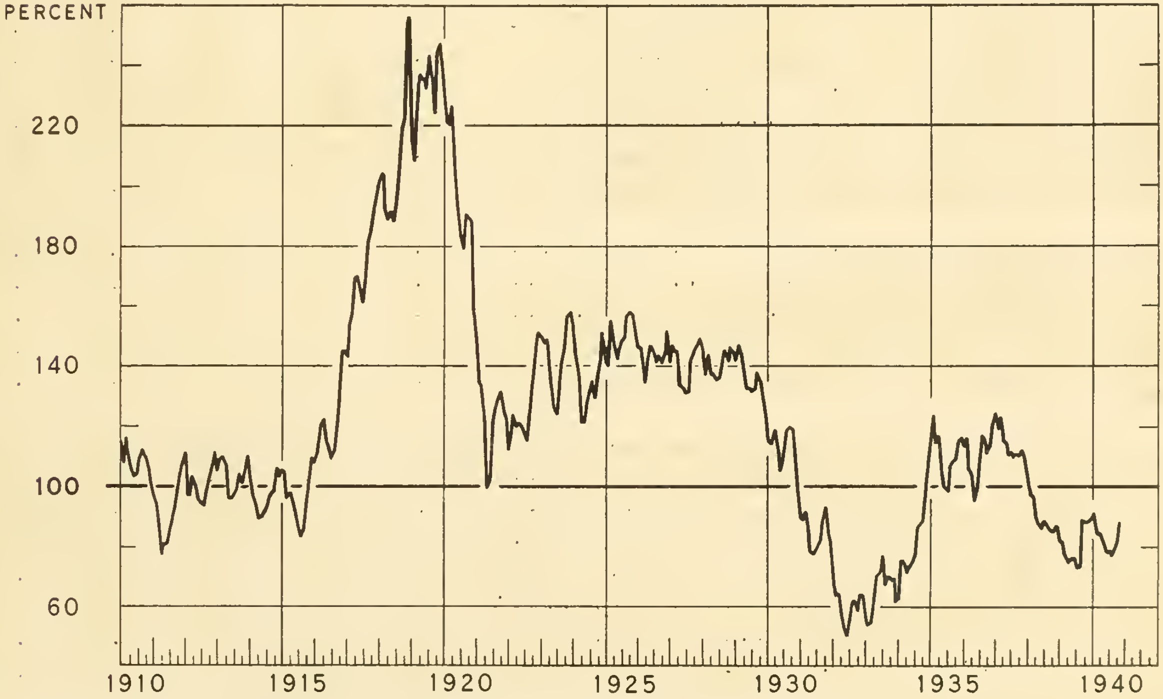
PRICES OF EIGHT DOMESTIC FATS AND OILS, UNITED STATES, 1910-40*

INDEX NUMBERS (1910-14=100)



*BUTTER, LARD, COTTONSEED OIL, TALLOW (INEDIBLE), LINSEED OIL, GREASE, OLEO OIL, AND TALLOW (EDIBLE)

U. S. DEPARTMENT OF AGRICULTURE NEG. 35999 BUREAU OF AGRICULTURAL ECONOMICS

PRICES OF DOMESTIC FATS AND OILS WERE UNUSUALLY LOW IN 1939 AND 1940, MAINLY BECAUSE OF A RECORD LARGE OUTPUT OF DOMESTIC FATS AND THE LOSS OF IMPORTANT EXPORT MARKETS. SOME ADVANCE IN PRICES IS EXPECTED TO TAKE PLACE IN 1941 AS A RESULT OF IMPROVEMENT IN DOMESTIC DEMAND AND REDUCED LARD AND GREASE OUTPUT.

Table 1.- Price per pound of specified fats and oils, and oil-bearing materials, November 1938 and 1939, and September-November 1940

| Item | November | | 1940 | | |
|---|---|---|---|---|---|
| | 1938 | 1939 | Sept. | Oct. | Nov. |
| Fats and oils: | Cents | Cents | Cents | Cents | Cents |
| Butter, 92-score, Chicago | 26.5 | 29.5 | 27.6 | 29.6 | 32.4 |
| Oleomargarine, dom. veg., Chicago | 15.4 | 15.0 | 14.5 | 14.5 | 14.5 |
| Compounds (animal and veg. cooking fats), Chicago | 9.8 | 9.5 | 8.8 | 8.4 | 8.2 |
| Lard, prime steam, tierces, Chicago | 7.1 | 6.1 | 4.8 | 4.7 | 4.7 |
| Lard, refined, tubs, (cartons) Chicago 2/ | 8.3 | 7.2 | 6.5 | 6.2 | 6.4 |
| Oleo oil, extra, tierces, Chicago | 8.7 | 8.5 | 7.0 | 7.0 | 7.0 |
| Oleostearine, bbls., N. Y. | 6.8 | 7.9 | 5.7 | 6.1 | 6.2 |
| Corn oil, crude, tanks, f.o.b. mills | 6.4 | 5.8 | 5.2 | 5.1 | 5.3 |
| Corn oil, refined, bbls., N. Y. | 9.6 | 8.6 | 7.8 | 7.7 | 7.8 |
| Cottonseed oil, crude, tanks, f.o.b. S. E. mills | 6.5 | 5.6 | 4.8 | 4.4 | 4.6 |
| Cottonseed oil, p.s.y., tank cars, N. Y. | 7.4 | 6.5 | 5.6 | 5.4 | 5.7 |
| Peanut oil, crude, tanks, f.o.b. mills | 6.6 | 6.7 | 5.2 | 4.5 | 4.8 |
| Peanut oil, dom. refined, bbls., N. Y. | 10.1 | 10.6 | 8.4 | 8.0 | 7.5 |
| Soybean oil, crude, tank cars, midwestern mills | 5.0 | 4.8 | 4.1 | 3.9 | 4.3 |
| Soybean oil, refined, drums, N. Y. | 7.9 | 8.0 | 6.9 | 6.9 | 7.3 |
| | | | | | |
| Babassu oil, tanks, N. Y. | 6.1 | 6.7 | 5.8 | 5.8 | 5.9 |
| Coconut oil, crude, tanks, f.o.b. Pacific Coast 3/ | 5.8 | 6.5 | 5.3 | 5.4 | 5.5 |
| Coconut oil, edible, tanks, N. Y. | 7.4 | 8.1 | 6.8 | 6.8 | 6.8 |
| Olive oil, edible, drums, N. Y. | 25.1 | 26.1 | 34.8 | 38.8 | 41.3 |
| Olive-oil foots, prime, drums, N. Y. | 7.1 | 9.3 | 8.9 | 9.5 | 10.3 |
| Palm oil, Niger, crude, drums, N. Y. 3/ | 6.6 | 8.0 | 6.5 | 6.5 | 6.6 |
| Palm oil, Sumatra, bulk, N. Y. 3/ | 5.7 | --- | 5.2 | 5.2 | 5.0 |
| Rape oil, refined, bbls., N. Y. | 4/10.7 | 4/13.5 | 15.0 | 14.8 | 13.6 |
| Sesame oil, refined, drums, N. Y. | 10.5 | --- | --- | --- | --- |
| Teaseed oil, crude, drums, N. Y. | 7.5 | 13.1 | 12.8 | 15.6 | 16.9 |
| | | | | | |
| Tallow, inedible, Chicago | 5.2 | 5.5 | 3.5 | 3.6 | 4.3 |
| Grease, A white, Chicago | 5.4 | 5.4 | 3.6 | 3.7 | 4.3 |
| Menhaden oil, crude, tanks, f.o.b. Baltimore | 4.0 | 4.5 | --- | --- | 5/ 3.8 |
| Sardine oil, crude, tanks, Pacific Coast | 3.9 | 4.2 | --- | --- | 5/ 5.1 |
| Whale oil, refined, bleached winter, drums, N. Y. | 8.2 | 4/ 9.5 | 9.5 | 9.5 | 9.5 |
| | | | | | |
| Linseed oil, raw, tank cars, Minneapolis | 8.1 | 9.4 | 7.7 | 7.5 | 7.7 |
| Linseed oil, raw, drums, carlots, N. Y. | 8.4 | 9.9 | 8.5 | 8.4 | 8.7 |
| Perilla oil, drums, N. Y. | 4/ 9.9 | 4/14.2 | 17.6 | 18.1 | 18.0 |
| Oiticica oil, drums, N. Y. | 11.5 | 20.6 | 19.0 | 19.0 | 19.0 |
| Tung oil, drums, N. Y. | 14.5 | 26.2 | 26.5 | 26.9 | 26.9 |
| Castor oil, dehydrated, drums, carlots, N. Y. | --- | 15.6 | 13.6 | 13.1 | 13.1 |
| Castor oil, No. 3, bbls., N. Y. | 9.2 | 11.1 | 10.8 | 9.8 | 9.8 |
| Cod-liver oil, med.U.S.P. bbls., N.Y. (dol.per bbl) | 26.5 | 39.8 | 72.5 | 72.5 | 72.5 |
| Oil-bearing materials: | | | | | |
| Copra, bags, f.o.b. Pacific Coast | 1.8 | 2.1 | 1.4 | 1.4 | 1.4 |
| Cottonseed, Dallas (dol. per ton) | 23.0 | 26.5 | 22.2 | 24.1 | 27.2 |
| Flaxseed, No. 1, Minneapolis (per bu.) | 184.0 | 184.0 | 148.0 | 147.0 | 159.0 |
| Peanuts, shelled, Runners No. 1, f.o.b. S.E.mills | 4.9 | 5.2 | 4.9 | 4.7 | 4.9 |
| Soybeans, No. 2 Yellow, Chicago (per bu.) | 74.0 | 98.0 | 81.0 | 83.0 | 95.0 |

Compiled from Oil, Paint and Drug Reporter, The National Provisioner, Chicago Daily Trade Bulletin, Minneapolis Daily Market Record, and reports of the Agricultural Marketing Service and Bureau of Labor Statistics. Prices quoted include excise taxes and duties where applicable. 1/ Preliminary. 2/ Beginning July 1940 reported in 1-pound cartons. 3/ Three-cent processing tax added to price as originally quoted. 4/ Revised. 5/ Futures.

# THE FATS AND OILS SITUATION

## Summary

Prices of fats and oils were steady to higher in November, with the newly-constructed index for 27 items advancing 5 points from the previous month to 68 percent of the 1924-29 average. At this level, the price index was 1 point higher than in November 1939.

Among domestic fats, only sardine oil and butter were higher priced in November this year than last. Prices for other domestic fats and oils were 10-30 percent below last year's levels, chiefly because of increased output, reduced export outlets for lard and other animal fats, and the pressure of large supplies of competing vegetable oils in surplus-producing countries now cut off from important European markets. Imported oils readily available for shipment to the United States were lower priced in November this year than last, but prices of items usually obtained from Europe and China were higher.

Except for soybeans, farm prices for domestic oilseeds in mid-November also were lower than a year earlier. Supplies of cottonseed, peanuts, and flaxseed for the current marketing season are estimated to be 6-53 percent larger than in the 1939-40 season, with a near-record supply of flaxseed and a record supply of peanuts. The supply of soybeans, on the other hand, is smaller this year than last. But exports of soybeans to continental Europe, which totaled more than 10 million bushels in 1939-40, probably will be negligible this year; hence, the quantity of soybeans available for crushing in the current season is likely to equal or exceed that of a year earlier.

Peanut purchases by grower cooperatives to early December, as reported by the Surplus Marketing Administration, amounted to approximately 40 percent of the 1940 peanut crop. A substantial proportion of the purchases already has been diverted to crushing mills.

Harvesting of new-crop flaxseed in South America is now under way. Prospects for exports to the United States and continental Europe are not promising, and a large surplus is expected. The Grain Board in Argentina recently was authorized to purchase flaxseed at a stated minimum price, with purchases presumably to be held for sale at some future date.

- December 14, 1940.

## REVIEW OF RECENT DEVELOPMENTS

### Prices of fats and oils steady to higher in November

Prices of nearly all fats and oils remained unchanged, or advanced moderately, in November. Pronounced gains occurred in prices of tallow and greases, which averaged 15-20 percent higher in November than a month earlier.

The average price of prime steam lard at Chicago in November, at 4.74 cents per pound, was slightly higher than in October, but was nearly 25 percent below the average for November 1939.

Prices of other domestic fats and oils, except sardine oil and butter, were 10-30 percent lower in November this year than last, with peanut oil, production of which has increased sharply in the past 2 months, showing the greatest relative decline. Prices of such imported oils as coconut, palm, babassu, castor, and oiticica also were lower in November this year than last. On the other hand, prices of oils usually obtained from Europe and China, including cod-liver, olive, teaseed, and tung, advanced during the past year. The price of perilla oil also advanced, largely because supplies of Manchurian perilla seed have been unusually small.

The price of sardine oil at San Francisco in November this year was more than 20 percent higher than in November 1939. The supply of this oil for immediate delivery during most of the fall was limited as a result of a delayed start in the sardine fishery. And with reduced supplies of cod-liver oil available, the demand for other vitamin-containing oils, including sardine oil, largely for use in the preparation of mixed poultry feeds, has strengthened considerably in recent months. Butter prices were about 10 percent higher in November this year than last, chiefly because of improvement in the domestic demand for food products.

### Lard purchases resumed

The Surplus Marketing Administration in November awarded contracts for 4,670,000 pounds of lard and 10,680,000 pounds of cottonseed oil shortening. In the fiscal year ended June 30, 1940, a total of 130,740,000 pounds of lard was purchased for distribution to eligible low income families. No cottonseed oil was purchased in the 1940 fiscal year.

### Prices of domestic oilseeds advanced in November, but remained below those of a year earlier

Prices received by farmers for cottonseed, flaxseed, and soybeans advanced 7-25 percent from mid-October to mid-November, partly as a result of the improvement in prices of fats and oils. Peanut prices showed little change for the month.

Despite the advances, the farm price of cottonseed in mid-November, at $23.12 per ton, was about 3 percent below that of mid-November 1939. Peanut prices averaged about 5 percent lower than a year earlier, while flaxseed prices were down about 15 percent. On the other hand, the average price received by farmers for soybeans, at 84 cents per bushel, was about 2 percent higher in mid-November this year than last.

### Supplies of cottonseed, peanuts, and flaxseed increased - soybeans reduced

As indicated in table 2, production and total supplies of cottonseed, peanuts, and flaxseed for the 1940-41 marketing year are considerably larger than in 1939-40, with increases in total supplies of 6, 37, and 53 percent respectively. Because of poor yields, the 1940-41 supply of soybeans is indicated to be 10 percent smaller than that of a year earlier.

Despite a larger cotton crop, marketings of cottonseed through November were smaller this year than in 1939. According to reports of the Bureau of the Census, the quantity of cottonseed received at mills from August 1 to October 31 totaled only 2,130,000 tons compared with 2,552,000 tons a year ago.

Purchases of peanuts by grower cooperatives to early December, as reported by the Surplus Marketing Administration, amounted to 638 million pounds, or about 40 percent of the 1940 crop. Of this quantity, 246 million pounds had already been diverted to crushing mills, with the remainder being held by the cooperatives for future sale to crushers or to the edible-peanut trade.

Although the total supply of soybeans is smaller this season than last, the quantity available for crushing is expected to equal or exceed that of a year earlier. In the 1939-40 marketing season, 10,949,153 bushels of soybeans were exported, with 67 percent of the total going to the Netherlands, and 30 percent to Scandinavian countries. Canada, the United Kingdom, and other countries took only 3 percent of the total. With most of continental Europe now cut off from American trade, it seems likely that soybean exports in the current marketing year will be negligible. Only 30,000 bushels of soybeans were exported in October (chiefly to Canada) compared with exports of 2,526,000 bushels in October 1939.

With the second largest crop on record, domestic output of flaxseed in 1940 was nearly equal to the total 1939-40 disappearance, which included 1-2 million bushels used for seed and 30 million bushels crushed. Crushing requirements in the current season probably will be greater than in 1939-40, principally because of the rising trend in paint and varnish consumption resulting from improvement in industrial and building activity. But with the large domestic supply, imports of flaxseed will be curtailed materially in the current season.

Supplies of flaxseed in Argentina and Uruguay available to the United States are expected to be exceptionally large, at least for the remainder of the domestic marketing year. Harvest of the new crop in those countries is now getting under way, with little immediate prospect for sales to continental Europe, normally one of the most important outlets for this commodity. However, the price of Argentine flaxseed apparently will be held at a relatively stable level, since the Government in Argentina recently authorized the Grain Board in that country, beginning December 1, to purchase flaxseed at 9.25 pesos per quintal, delivered at Buenos Aires. The Grain Board also was authorized to secure the promise from growers not to increase acreage next year, and, if requested, to reduce acreage not more than 10 percent.

Table 2.- Supply, net trade, and crushings of domestic oilseeds, United States, 1936-40
(Net exports are indicated by a minus sign)

| Crop year | Carry-over | Production | Total supply | Net imports or net exports | Crushings | Crushings as percentage of production |
|---|---|---|---|---|---|---|
| | | | Cottonseed 1/ | | | |
| | 1,000 tons | 1,000 tons | 1,000 tons | 1,000 tons | 1,000 tons | Percent |
| 1936 | 22 | 5,511 | 5,533 | --- | 4,498 | 81.6 |
| 1937 | 42 | 8,426 | 8,468 | --- | 6,326 | 75.1 |
| 1938 | 337 | 5,310 | 5,647 | --- | 4,471 | 84.2 |
| 1939 | 121 | 5,260 | 5,381 | --- | 4,148 | 78.9 |
| 1940 2/ | 39 | 5,638 | 5,677 | | | |
| | | | Peanuts 3/ | | | |
| | Mil. lb. | Mil. lb. | Mil. lb. | Mil. lb. | Mil. lb. | Percent |
| 1936 | 4/ | 1,253 | 4/ | 2 | 165 | 13.2 |
| 1937 | 4/ | 1,224 | 4/ | 3 | 171 | 14.0 |
| 1938 | 41 | 1,306 | 1,347 | 8 | 260 | 19.9 |
| 1939 | 27 | 1,180 | 1,206 | 8 | 73 | 6.2 |
| 1940 2/ | 76 | 1,574 | 1,650 | | | |
| | | | Soybeans 5/ | | | |
| | 1,000 bu. | 1,000 bu. | 1,000 bu. | 1,000 bu. | 1,000 bu. | Percent |
| 1936 | 361 | 29,983 | 30,344 | - 2 | 20,618 | 68.8 |
| 1937 | 293 | 45,272 | 45,565 | -1,365 | 30,310 | 67.0 |
| 1938 | 340 | 62,729 | 63,069 | -4,398 | 44,648 | 71.2 |
| 1939 | 965 | 87,409 | 88,374 | -10,947 | 57,072 | 65.3 |
| 1940 2/ | 393 | 79,198 | 79,591 | | | |
| | | | Flaxseed 6/ | | | |
| 1936 | 3,331 | 5,273 | 8,604 | 26,096 | 30,340 | 575.4 |
| 1937 | 3,339 | 7,089 | 10,428 | 17,861 | 25,870 | 364.9 |
| 1938 | 2,199 | 8,152 | 10,351 | 18,744 | 25,569 | 313.7 |
| 1939 | 2,296 | 20,330 | 22,626 | 13,212 | 30,078 | 147.9 |
| 1940 2/ | 3,911 | 30,629 | 34,540 | | | |

Compiled as follows: Carry-over - Cottonseed and soybeans, Bureau of the Census; peanuts and flaxseed, Agricultural Marketing Service. Production - Agricultural Marketing Service. Net trade - Bureau of Foreign and Domestic Commerce. Crushings - Bureau of the Census, except peanuts - Agricultural Marketing Service.

1/ Year beginning August. Carry-over consists of mill stocks only. 2/ Preliminary. Production indicated December 1 for cottonseed, November 1 for other items.

3/ Farmers' stock. Carry-over September 1; net imports year beginning July; crushings, year beginning October. 4/ Not available. 5/ Year beginning October. Carry-over consists of factory stocks only. 6/ Year beginning July.

## WHOLESALE PRICES OF FATS AND OILS: INDEX NUMBERS, 1940

Price index numbers given in tables 3-5 of this report bring to date the index numbers presented in Technical Bulletin No. 737, recently issued by the Department of Agriculture. 1/ The index numbers fall into 3 groups: (1) A series of index numbers of prices of 8 domestic fats and oils, beginning 1910; (2) index numbers of prices of all fats and oils (27 items), grouped according to similarity of origin, beginning 1922; and (3) index numbers of prices of all fats and oils, grouped according to similarity of use, also beginning 1922.

The general trend in prices of fats and oils was downward from January through August this year. But prices of most fats advanced during the following 3 months, and in November the index of prices of all fats and oils, at 68 percent of the 1924-29 average, was 1 point higher than in November 1939. The index for animal fats in November was 2 points higher than a year earlier. The index numbers for marine animal oils and foreign vegetable oils, however, were each 1 point lower, while the index for domestic vegetable oils was 8 points below that of November last year.

## MARINE ANIMAL OILS: REVISED DATA, 1912-39

Revised production and consumption statistics for marine animal oils for the years 1912-39 are presented in this report. The original figures were given in Statistical Bulletin No. 59. 2/

In compiling the new series, production reports of the Fish and Wildlife Service beginning 1921 were used. Data for earlier years were not changed, except in the case of whale oil, for which a more comprehensive series than that originally followed was obtained. Other changes, beginning with 1921, include the addition of liver oils other than cod and cod-liver to the fish-liver-oil group, and the addition of some minor items to the fish-oil group.

According to the revised figures, domestic production of all marine animal oils, including fish-liver, fish, and marine mammal oils, increased from approximately 43 million pounds in 1912 to 270 million pounds in 1939. Apparent disappearance, or consumption, during the same period increased from about 55 million to 370 million pounds. Net imports, chiefly of the liver oils, also increased.

### Imports and consumption of fish-liver oils greatly reduced in 1940

Domestic consumption of fish-liver oils, used mainly in human and poultry nutrition for their vitamin A and D content, increased from about 12 million pounds in 1920 to nearly 69 million pounds in 1939. Primary

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1/ Wholesale Prices of Fats and Oils in the United States: Index Numbers, 1910-39. Copies of this bulletin may be obtained from the Superintendent of Documents, Washington, D. C. Price 5 cents.

2/ Fats, Oils, and Oleaginous Raw Materials - Production, Prices, Trade, Disappearance in the United States 1912-35 and Available Data for Earlier Years. United States Department of Agriculture, Washington, D. C., 1937.

disappearance in 1940, however, may total about 50 percent less than in 1939. Difficulties in obtaining imports of the liver oils from Europe have been chiefly responsible for the sharp decline in consumption this year.

Until recently, the relatively small production of liver oils by United States fisheries consisted largely of cod-liver and cod oils, the latter being derived from low grade cod livers and being used exclusively for industrial purposes. But production of shark, halibut, and other liver oils has gained rapidly in importance in the past few years, and in 1939 such production exceeded that of cod and cod-liver oils. Total production of fish-liver oils in 1939, however, amounted only to 5.2 million pounds, whereas imports of fish-liver oils amounted to more than 66 million pounds.

Fish-liver oils, in the past, have been imported mainly from Norway, Iceland, Germany, the United Kingdom, Newfoundland, Canada, and Japan. Because of hostilities in the North Sea area, imports from Norway, Germany, and the United Kingdom virtually ceased shortly after the opening of the present war. And surplus production in British Empire areas was reserved largely for British account. Imports of cod and cod-liver oils during the first 9 months of 1940 totaled less than 14 million pounds compared with 53 million pounds in the corresponding period of 1939.

Certain of the fish-body oils, particularly sardine and menhaden, contain vitamin D, although not in the concentrated form in which this vitamin usually occurs in fish livers. Fish oils are being used to an increasing extent to supplement fish-liver oils in the manufacture of mixed poultry feeds.

## Output of fish oils increased considerably in past 20 years

The total domestic output of fish oils increased from about 38 million pounds in 1920 to a peak of 266 million pounds in 1936, and amounted to 237 million pounds in 1939. Production in 1940 is likely to total less than in 1939, chiefly because of a delayed start in the California sardine fishery this fall.

The greater part of the enlarged fish-oil output since 1920 has been accounted for by increased production of sardine, or pilchard, oil on the West Coast, particularly after 1932. Production of herring oil has shown a fairly substantial increase since 1920; while moderate gains in output of salmon oil and tuna oil also have occurred. Most of the fish oils produced in this country are used domestically in the soap, drying-oils, and food-products industries in competition with other fats and oils. There has been a small balance of exports of fish oils in the past few years.

## Domestic whaling activity at low level in 1940

Domestic production of whale oil from 1911 to 1935 was confined to operations of shore stations on the West Coast and in Alaska. During the summer seasons, 1936-38, a factory ship accompanied by killer boats operated in Australian waters. And during the winter seasons, 1936-37 to 1939-40, another floating expedition operated in the Antarctic. Production of whale oil was increased to 71 million pounds in the calendar year 1937, but fell to 27 million pounds in 1939. No floating expeditions have been undertaken this year, with the result that the domestic output of whale oil has been further reduced. The principal domestic whaling activity at present centers about a single shore station in California.

Whale oil in the United States is used principally in soap manufacture, although in Europe it is widely used in food products as well as in soap. Considerable quantities of whale oil have been imported by the United States during the past 20 years, mostly from Norway. But since 1934, when a 3-cent excise tax was levied on imports, imports have tended to decline, and totaled only 20 million pounds in 1939 compared with a 10-year (1924-33) average of 53 million pounds.

Table 3.- Prices of eight domestic fats and oils, November 1939-November 1940 (Index numbers: Average for base period = 100)

| 1939 Nov. | Dec. | 1940 Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Base period: 1910-14 | | | | | | | | | | | | |
| 88 | 89 | 91 | 87 | 84 | 84 | 81 | 78 | 79 | 77 | 79 | 82 | 88 |
| Base period: 1924-29 | | | | | | | | | | | | |
| 62 | 63 | 65 | 62 | 60 | 59 | 58 | 56 | 56 | 55 | 56 | 58 | 62 |

Table 4.- Prices of all fats and oils and of fats and oils grouped according to origin, November 1939-November 1940

(Index numbers: 1924-29 = 100)

| Year and month | All fats and oils | Animal fats | Marine animal oils | Vegetable oils: Domestic | Vegetable oils: Foreign |
|---|---|---|---|---|---|
| 1939 | | | | | |
| Nov. | 67 | 64 | 87 | 67 | 92 |
| Dec. | 68 | 64 | 86 | 70 | 91 |
| 1940 | | | | | |
| Jan. | 69 | 65 | 91 | 71 | 93 |
| Feb. | 67 | 62 | 90 | 70 | 91 |
| Mar. | 65 | 60 | 89 | 70 | 90 |
| Apr. | 64 | 59 | 89 | 71 | 89 |
| May | 62 | 57 | 90 | 67 | 88 |
| June | 61 | 56 | 90 | 64 | 87 |
| July | 61 | 57 | 88 | 62 | 88 |
| Aug. | 60 | 56 | 87 | 58 | 85 |
| Sept. | 61 | 57 | 86 | 58 | 86 |
| Oct. | 63 | 60 | 86 | 56 | 88 |
| Nov. | 68 | 66 | 86 | 59 | 91 |

Table 5.- Prices of fats and oils grouped according to use, November 1939-November 1940 (Index numbers: 1924-29 = 100)

| Year and month | Butter: Unadjusted | Butter: Adjusted 1/ | Lard | Food fats other than butter and lard | Soap fats | Drying oils | Miscellaneous oils |
|---|---|---|---|---|---|---|---|
| 1939 | | | | | | | |
| Nov. | 67 | 62 | 46 | 69 | 72 | 95 | 95 |
| Dec. | 67 | 61 | 48 | 70 | 71 | 99 | 99 |
| 1940 | | | | | | | |
| Jan. | 70 | 69 | 46 | 69 | 70 | 103 | 102 |
| Feb. | 66 | 64 | 47 | 69 | 68 | 100 | 102 |
| Mar. | 64 | 62 | 45 | 67 | 65 | 103 | 100 |
| Apr. | 62 | 65 | 47 | 67 | 65 | 102 | 100 |
| May | 60 | 66 | 43 | 65 | 62 | 99 | 101 |
| June | 60 | 65 | 42 | 63 | 60 | 95 | 101 |
| July | 60 | 65 | 44 | 64 | 59 | 91 | 98 |
| Aug. | 62 | 64 | 38 | 61 | 54 | 87 | 92 |
| Sept. | 63 | 62 | 37 | 62 | 56 | 86 | 91 |
| Oct. | 67 | 65 | 35 | 62 | 57 | 86 | 86 |
| Nov. | 74 | 68 | 36 | 65 | 62 | 88 | 84 |

1/ Adjusted for typical seasonal variation.

Table 6.- Marine animal oils, crude: Production, trade, stocks December 31, and apparent disappearance, 1912-39

| Calendar year | Production, U. S. and Alaska | Imports for consumption | Exports 1/ | Net imports | Stocks, Dec. 31 2/ | Apparent disappearance |
|---|---|---|---|---|---|---|
| | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds |
| 1912 | 43,236 | 20,707 | 9,375 | 11,332 | --- | 54,568 |
| 1913 | --- | 17,321 | 8,906 | 8,415 | --- | --- |
| 1914 | 27,419 | 22,803 | 1,340 | 21,463 | --- | 48,882 |
| 1915 | --- | 20,220 | 1,210 | 19,010 | --- | --- |
| 1916 | 35,742 | 33,578 | 1,059 | 32,519 | --- | 68,261 |
| 1917 | 32,033 | 39,858 | 956 | 38,902 | --- | 70,935 |
| 1918 | 24,466 | 29,697 | 4,470 | 25,227 | --- | 49,693 |
| 1919 | 37,271 | 19,492 | 8,551 | 10,941 | 48,151 | 48,212 |
| 1920 | 54,576 | 16,989 | 3,292 | 13,697 | 60,310 | 56,114 |
| 1921 | 60,079 | 23,697 | 951 | 22,746 | 44,399 | 98,736 |
| 1922 | 80,784 | 51,292 | 5,738 | 45,554 | 49,293 | 121,444 |
| 1923 | 87,159 | 56,369 | 1,724 | 54,645 | 45,521 | 145,576 |
| 1924 | 70,097 | 68,669 | 872 | 67,797 | 47,551 | 135,864 |
| 1925 | 101,163 | 85,744 | 614 | 85,130 | 58,311 | 175,533 |
| 1926 | 82,687 | 93,146 | 809 | 92,337 | 67,651 | 165,684 |
| 1927 | 82,639 | 133,430 | 692 | 132,738 | 92,180 | 190,848 |
| 1928 | 92,071 | 125,011 | 882 | 124,129 | 70,563 | 237,817 |
| 1929 | 116,170 | 139,226 | 1,120 | 138,106 | 102,064 | 222,775 |
| 1930 | 111,390 | 127,191 | 1,079 | 126,112 | 157,092 | 182,474 |
| 1931 | 64,795 | 143,605 | 1,598 | 142,007 | 147,022 | 216,872 |
| 1932 | 92,222 | 94,636 | 1,477 | 93,159 | 142,337 | 190,066 |
| 1933 | 133,910 | 95,971 | 5,849 | 90,122 | 144,450 | 221,919 |
| 1934 | 225,658 | 59,446 | 6,364 | 53,082 | 196,023 | 227,167 |
| 1935 | 240,498 | 78,592 | 3,276 | 75,316 | 191,594 | 320,243 |
| 1936 | 301,290 | 93,807 | 2,154 | 91,653 | 214,115 | 370,422 |
| 1937 | 270,283 | 122,748 | 1,949 | 120,799 | 216,441 | 388,756 |
| 1938 | 266,406 | 84,775 | 2,677 | 82,098 | 259,445 | 305,500 |
| 1939 3/ | 270,104 | 87,491 | 2,279 | 85,212 | 245,150 | 369,611 |

Marine animal oils include fish-liver oils, fish oils, and marine mammal oils. For sources see following tables.

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1/ Includes reexports of cod and cod-liver oils, 1914-21.
2/ Excludes stocks of whale and sperm-whale oil in bonded warehouses, 1926-36; such stocks not reported since 1936.
3/ Preliminary.

Table 7.- Fish-liver oils, crude: Production, trade, stocks December 31, and apparent disappearance, 1912-39

| Calendar year | Production | | | | | Imports for consumption | | | | Exports 3/ | Net imports | Stocks Dec. 31 | Apparent disappearance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cod oil | Cod-liver oil | Shark-liver oil | Other liver oil 1/ | Total 2/ | Cod oil | Cod-liver oil | Halibut-liver oil | Total 2/ | | | | |
| | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds |
| 1912 | --- | 4/ 372 | --- | --- | 372 | 3,212 | 2,518 | --- | 5,730 | --- | 5,730 | --- | 6,102 |
| 1913 | --- | --- | --- | --- | --- | 6,557 | 2,195 | --- | 8,752 | --- | 8,752 | --- | --- |
| 1914 | --- | 4/ 394 | --- | --- | 394 | 10,812 | 2,304 | --- | 13,116 | 176 | 12,940 | --- | 13,334 |
| 1915 | --- | --- | --- | --- | --- | 10,780 | 1,322 | --- | 12,102 | 269 | 11,833 | --- | --- |
| 1916 | --- | 4/ 367 | --- | --- | 367 | 8,722 | 1,619 | --- | 10,341 | 105 | 10,236 | --- | 10,603 |
| 1917 | --- | 4/ 439 | --- | --- | 439 | 14,359 | 2,185 | --- | 16,544 | 62 | 16,482 | --- | 16,921 |
| 1918 | --- | 4/ 712 | --- | --- | 712 | 7,556 | 1,383 | --- | 8,939 | 219 | 8,720 | --- | 9,432 |
| 1919 | --- | 4/ 968 | --- | --- | 968 | 8,642 | 1,769 | --- | 10,410 | 409 | 10,001 | 2,305 | 10,969 |
| 1920 | --- | 4/ 1,471 | --- | --- | 1,471 | 7,835 | 3,339 | --- | 11,173 | 80 | 11,093 | 2,956 | 11,913 |
| 1921 | --- | 47 | --- | 339 | 385 | 13,998 | 2,569 | --- | 16,568 | 146 | 16,422 | 5,791 | 13,972 |
| 1922 | --- | 32 | --- | 522 | 554 | 11,853 | 1,718 | --- | 13,571 | 457 | 13,114 | 3,956 | 15,503 |
| 1923 | --- | 5/ 731 | --- | --- | 731 | 13,392 | 3,983 | --- | 17,374 | 251 | 17,123 | 6,009 | 15,801 |
| 1924 | --- | 5/ 824 | --- | --- | 824 | 14,367 | 6,982 | --- | 21,349 | 384 | 20,965 | 6,779 | 21,019 |
| 1925 | --- | 5/ 1,071 | --- | --- | 1,071 | 13,163 | 9,153 | --- | 22,316 | --- | 22,316 | 5,552 | 24,614 |
| 1926 | --- | 5/ 1,358 | --- | --- | 1,358 | 18,192 | 14,411 | --- | 32,603 | --- | 32,603 | 9,180 | 30,333 |
| 1927 | --- | 5/ 2,197 | --- | --- | 2,197 | 15,857 | 17,815 | --- | 33,672 | --- | 33,672 | 9,653 | 35,396 |
| 1928 | --- | 5/ 2,073 | --- | --- | 2,073 | 11,769 | 19,290 | --- | 31,059 | --- | 31,059 | 8,075 | 34,710 |
| 1929 | --- | 5/ 2,050 | --- | --- | 2,050 | 15,681 | 21,455 | --- | 37,137 | --- | 37,137 | 8,236 | 39,026 |
| 1930 | --- | 4/ 1,180 | 34 | --- | 1,214 | 15,382 | 21,712 | --- | 37,094 | --- | 37,094 | 10,612 | 35,932 |
| 1931 | --- | 4/ 756 | --- | --- | 756 | 13,458 | 13,029 | --- | 26,487 | --- | 26,487 | 7,773 | 30,082 |
| 1932 | 596 | 192 | --- | --- | 788 | 24,723 | 9,360 | --- | 34,083 | --- | 34,083 | 8,390 | 34,254 |
| 1933 | 351 | 151 | --- | --- | 502 | 15,864 | 25,744 | --- | 41,608 | --- | 41,608 | 9,586 | 40,914 |
| 1934 | 396 | 730 | --- | --- | 1,126 | 10,940 | 26,027 | 6/ 12 | 36,979 | --- | 36,979 | 10,343 | 37,348 |
| 1935 | 134 | 1,668 | --- | 628 | 2,430 | 20,086 | 34,553 | 12 | 54,651 | --- | 54,651 | 11,723 | 55,701 |
| 1936 | 136 | 2,178 | 31 | 509 | 2,854 | 20,998 | 43,422 | --- | 64,420 | --- | 64,420 | 17,332 | 61,665 |
| 1937 | 58 | 2,135 | 74 | 548 | 2,815 | 22,156 | 44,370 | 115 | 66,641 | --- | 66,641 | 18,673 | 68,115 |
| 1938 | 36 | 2,024 | 973 | 871 | 3,904 | 22,934 | 39,215 | 27 | 62,175 | --- | 62,175 | 31,012 | 53,740 |
| 1939 7/ | 75 | 2,462 | 991 | 1,676 | 5,204 | 16,215 | 50,027 | --- | 66,242 | --- | 66,242 | 33,653 | 68,805 |

Continued -

Table 7.- Fish-liver oils, crude: Production, trade, stocks December 31, and apparent disappearance, 1912-39 - Continued.

Compiled as follows:

Production -

1912, 1914, 1916-18, Supplement to United States Department of Agriculture Bulletin No. 769.

1919 and 1920, Bureau of the Census, Animal and Vegetable Fats and Oils.

1921-39, from reports of the Fish and Wildlife Service (Bureau of Fisheries for years prior to 1939): Canned Fishery Products and Byproducts of the United States and Alaska, and Manufactured Fishery Products of the United States and Alaska. Reported in gallons; converted to pounds using 7.74 pounds per gallon for Atlantic and Gulf Coasts and 7.50 for Pacific Coast.

Imports for consumption -

1912-17, Quarterly Reports of Imported Merchandise Entered for Consumption in the United States and Duties Collected Thereon.

1918-39, Foreign Commerce and Navigation of the United States.

Exports and reexports -

1914-17, December issues of Monthly Summary of Foreign Commerce of the United States.

1918-24, Foreign Commerce and Navigation of the United States. Reexports, if any, included with "other fish oils" prior to 1914 and after 1921; exports, if any, included with "other fish oils" prior to 1922 and after 1924.

Trade figures reported in gallons; converted to pounds using 7.5 pounds per gallon.

Stocks -

Bureau of the Census, Animal and Vegetable Fats and Oils. Data for years prior to 1919 not available. Cod and cod-liver oils only.

Apparent disappearance computed from data on production, trade and stocks.

1/ Includes burbot, flounder, halibut, mackerel, sable fish, swordfish, tuna, "lingood," shark, totuava, black cod, and miscellaneous liver oils. Various combinations represented in different years. 2/ Total of unrounded numbers. 3/ Reexports 1914-20. 4/ Reported as "cod and cod-liver oil." 5/ Reported as "cod-liver oil, crude." 1923 includes about 38,700 pounds which was refined for medicinal use. 6/ May 11-December 31, 1934, not reported separately prior to this time.
7/ Preliminary.

## Table 8.-Fish oils, crude: Production, trade, stocks December 31, and apparent disappearance, 1912-39

(Net exports are indicated by a minus sign)

| Calendar year | Production, United States and Alaska | Imports for consumption | Exports | Net imports or net exports | Stocks Dec. 31 | Apparent disappearance |
|---|---|---|---|---|---|---|
| | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. |
| 1912 | 35,898 | 4,059 | 9,375 | -5,316 | --- | 30,582 |
| 1913 | --- | 4,256 | 8,906 | -4,650 | --- | --- |
| 1914 | 19,110 | 2,631 | 1,164 | 1,467 | --- | 20,577 |
| 1915 | --- | 2,697 | 941 | 1,756 | --- | --- |
| 1916 | 24,005 | 14,106 | 954 | 13,152 | --- | 37,157 |
| 1917 | 23,355 | 12,930 | 894 | 12,036 | --- | 35,391 |
| 1918 | 14,098 | 13,223 | 4,251 | 8,972 | --- | 23,070 |
| 1919 | 22,591 | 4,066 | 8,142 | -4,076 | 30,958 | 18,515 |
| 1920 | 38,378 | 4,319 | 3,212 | 1,107 | 37,532 | 32,911 |
| 1921 | 55,730 | 1,278 | 805 | 473 | 23,030 | 70,705 |
| 1922 | 63,340 | 2,414 | 4,698 | -2,284 | 29,519 | 54,567 |
| 1923 | 74,729 | 5,376 | 750 | 4,626 | 30,842 | 78,032 |
| 1924 | 59,949 | 5,633 | 395 | 5,238 | 28,496 | 67,533 |
| 1925 | 90,930 | 5,196 | 614 | 4,582 | 31,292 | 92,716 |
| 1926 | 71,759 | 15,383 | 809 | 14,574 | 42,135 | 75,490 |
| 1927 | 68,956 | 39,913 | 692 | 39,221 | 59,038 | 91,274 |
| 1928 | 79,061 | 40,749 | 882 | 39,867 | 42,696 | 135,270 |
| 1929 | 102,678 | 38,206 | 1,120 | 37,086 | 73,020 | 109,440 |
| 1930 | 99,277 | 31,034 | 1,079 | 29,955 | 125,764 | 76,488 |
| 1931 | 64,023 | 32,523 | 1,598 | 30,925 | 101,377 | 119,335 |
| 1932 | 85,372 | 16,154 | 1,477 | 14,677 | 109,213 | 92,213 |
| 1933 | 129,013 | 5,852 | 5,849 | 3 | 110,437 | 127,792 |
| 1934 | 215,982 | 2,220 | 6,364 | -4,144 | 170,403 | 151,872 |
| 1935 | 227,996 | 868 | 3,276 | -2,408 | 164,216 | 231,775 |
| 1936 | 266,342 | 1,287 | 2,154 | - 867 | 160,542 | 269,149 |
| 1937 | 196,064 | 1,243 | 1,949 | - 706 | 106,462 | 249,438 |
| 1938 | 202,479 | 528 | 2,677 | -2,149 | 146,160 | 160,632 |
| 1939 1/ | 237,324 | 960 | 2,279 | -1,319 | 167,001 | 215,164 |

Compiled as follows:

Production-

1912, 1914, 1916-18, Supplement to United States Department of Agriculture Bulletin No. 769.

1919 and 1920, Bureau of the Census, Animal and Vegetable Fats and Oils.

1921-39, from reports of the Fish and Wildlife Service (Bureau of Fisheries for years prior to 1939): Canned Fishery Products and Byproducts of the United States and Alaska, and Manufactured Fishery Products of the United States and Alaska. Reported in gallons; converted to pounds using 7.74 pounds per gallon for Atlantic and Gulf Coasts and 7.50 for Pacific Coast.

Continued -

Table 8.-Fish oils, crude: Production, trade, stocks December 31, and apparent disappearance, 1912-39 - Continued

Foreign trade-

Imports, 1912-17, Quarterly Report of Imported Merchandise Entered for Consumption in the United States and Duties Collected Thereon; 1918-39, Foreign Commerce and Navigation of the United States.

Exports, 1912-17, December issues of Monthly Summary of Foreign Commerce of the United States; 1918-39, Foreign Commerce and Navigation of the United States.

Reported in gallons; converted to pounds using 7.5 pounds per gallon.

Stocks - Bureau of the Census, Animal and Vegetable Fats and Oils. Data not available for years prior to 1919. Includes fish-liver oils other than cod and cod-liver.

Apparent disappearance computed from data on production, trade and stocks.

1/ Preliminary.

Table 9.- Production of specified fish oils, crude basis, United States and Alaska, 1921-39

| Calendar year | Alewife | Herring | Mackerel | Menhaden | Pilchard (sardine) | Salmon | Tuna | Miscellaneous 1/ | Total |
|---|---|---|---|---|---|---|---|---|---|
| | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds |
| 1921 | --- | 853 | --- | 48,456 | 1,282 | 536 | --- | 4,603 | 55,730 |
| 1922 | --- | 3,384 | --- | 54,975 | 3,216 | 195 | 646 | 924 | 63,340 |
| 1923 | --- | 7,103 | --- | 57,751 | 7,247 | 591 | 334 | 1,703 | 74,729 |
| 1924 | --- | 9,962 | --- | 30,371 | 17,540 | 1,272 | 266 | 538 | 59,949 |
| 1925 | --- | 18,341 | --- | 46,619 | 23,400 | 1,684 | 434 | 452 | 90,930 |
| 1926 | --- | 23,413 | --- | 30,517 | 15,848 | 1,449 | 186 | 346 | 71,759 |
| 1927 | --- | 17,249 | --- | 30,628 | 18,859 | 1,541 | 247 | 432 | 68,956 |
| 1928 | --- | 20,621 | --- | 27,752 | 28,693 | 1,287 | 171 | 537 | 79,061 |
| 1929 | 149 | 26,366 | 235 | 24,557 | 48,206 | 2,103 | 436 | 626 | 102,678 |
| 1930 | 261 | 27,755 | --- | 24,700 | 43,524 | 1,755 | 426 | 856 | 99,277 |
| 1931 | 137 | 16,850 | --- | 15,339 | 29,373 | 1,882 | 120 | 322 | 64,023 |
| 1932 | 175 | 19,016 | --- | 23,198 | 41,467 | 1,155 | 230 | 131 | 85,372 |
| 1933 | 239 | 23,823 | 628 | 25,885 | 76,978 | 1,409 | --- | 51 | 129,013 |
| 1934 | 103 | 28,306 | 1,182 | 27,960 | 156,339 | 1,518 | --- | 574 | 215,982 |
| 1935 | 46 | 28,939 | 2,005 | 31,472 | 163,014 | 1,016 | 957 | 547 | 227,996 |
| 1936 | 51 | 28,489 | 1,438 | 37,778 | 195,986 | 1,095 | 1,246 | 259 | 266,342 |
| 1937 | 96 | 42,186 | 606 | 30,152 | 119,949 | 1,254 | 1,065 | 756 | 196,064 |
| 1938 | 145 | 34,360 | 648 | 32,424 | 131,547 | 1,244 | 1,444 | 667 | 202,479 |
| 1939 2/ | 107 | 36,375 | 832 | 46,482 | 149,973 | 3/1,365 | 1,498 | 692 | 237,324 |

Compiled from reports of the Fish and Wildlife Service (Bureau of Fisheries for year prior to 1939): Canned Fishery Products and Byproducts of the United States and Alaska, and Manufactured Fishery Products of the United States and Alaska. Reported in gallons; converted to pounds using 7.74 pounds per gallon for Atlantic and Gulf Coasts and 7.50 for Pacific Coast.

1/ Includes blackfish, grayfish, rosefish, mackerel, shark, tanners, turtle, and miscellaneous fish oils.

2/ Preliminary.

3/ Includes a considerable quantity of salmon oil especially prepared for human consumption.

Table 10.- Whale oil, crude: Production, trade, stocks December 31, and apparent disappearance, 1911-39

| Calendar year | Production, United States and Alaska |  |  | Imports for consumption |  |  | Exports, whale oil and sperm-whale oil | Stocks Dec. 31, whale oil and sperm - whale oil |  |  | Apparent disappearance |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Whale oil | Sperm-whale oil | Total 1/ | Whale oil | Sperm-whale oil | Total 1/ |  | Total, including stocks in bonded warehouses | In bonded warehouses | Total excluding stocks in bonded warehouses |  |
|  | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. | 1,000 lb. |
| 1911 | 1,876 | --- | 1,876 | 2/7,647 | --- | 7,647 | --- | --- | --- |  | 9,523 |
| 1912 | 6,966 | --- | 6,966 | 2/10,916 | --- | 10,916 | --- | --- | --- |  | 17,882 |
| 1913 | 3,499 | --- | 3,499 | 2/ 2,840 | 3/596 | 3,436 | --- | --- | --- |  | 6,935 |
| 1914 | 6,695 | 1,221 | 7,915 | 2,057 | 1,004 | 3,061 | --- | --- | --- |  | 10,976 |
| 1915 | 8,936 | 801 | 9,737 | 4,505 | 718 | 5,223 | --- | --- | --- |  | 14,960 |
| 1916 | 10,631 | 739 | 11,370 | 2,607 | 50 | 2,658 | --- | --- | --- |  | 14,028 |
| 1917 | 6,757 | 1,483 | 8,239 | 8,176 | 311 | 8,487 | --- | --- | --- |  | 15,726 |
| 1918 | 6,791 | 2,864 | 9,656 | 2,390 | 452 | 2,841 | --- | --- | --- |  | 12,497 |
| 1919 | 4/10,495 | 3,218 | 13,712 | 3,908 | 936 | 4,843 | --- | 14,888 | --- | 14,888 | 18,555 |
| 1920 | 4/11,779 | 2,948 | 14,727 | 651 | 748 | 1,399 | --- | 19,822 | --- | 19,822 | 11,192 |
| 1921 | 2,658 | 1,306 | 3,964 | 2,748 | 23 | 2,771 | --- | 15,578 | --- | 15,578 | 10,979 |
| 1922 | 13,973 | 2,918 | 16,890 | 32,112 | 482 | 32,594 | 583 | 15,818 | --- | 15,818 | 48,661 |
| 1923 | 10,098 | 1,601 | 11,699 | 28,853 | 960 | 29,813 | 723 | 8,670 | --- | 8,670 | 47,937 |
| 1924 | 8,563 | 762 | 9,324 | 37,528 | 529 | 38,057 | 93 | 12,276 | --- | 12,276 | 43,682 |
| 1925 | 8,071 | 1,091 | 9,162 | 53,558 | 1,937 | 55,495 | --- | 21,467 | --- | 21,467 | 55,466 |
| 1926 | 9,495 | 75 | 9,570 | 39,249 | 1,030 | 40,279 | --- | 36,125 | 19,789 | 16,336 | 54,980 |
| 1927 | 11,407 | 79 | 11,486 | 53,131 | 1,995 | 55,126 | --- | 27,272 | 3,783 | 23,489 | 59,459 |
| 1928 | 10,234 | 703 | 10,937 | 48,426 | 3,315 | 51,742 | --- | 40,294 | 20,502 | 19,792 | 66,376 |
| 1929 | 11,084 | 358 | 11,442 | 56,552 | 2,600 | 59,152 | --- | 36,689 | 15,881 | 20,808 | 69,578 |
| 1930 | 9,939 | 960 | 10,899 | 52,702 | 3,008 | 55,711 | --- | 61,381 | 40,665 | 20,716 | 66,702 |
| 1931 | 16 | --- | 16 | 81,197 | 2,799 | 83,996 | --- | 129,782 | 91,910 | 37,872 | 66,856 |
| 1932 | 6,008 | 54 | 6,062 | 42,136 | 1,810 | 43,946 | --- | 79,686 | 54,952 | 24,734 | 63,146 |
| 1933 | 4,274 | 122 | 4,395 | 43,017 | 4,699 | 47,716 | --- | 38,869 | 14,442 | 24,427 | 52,418 |
| 1934 | 7,957 | 592 | 8,550 | 15,803 | 4,187 | 19,990 | --- | 61,656 | 46,379 | 15,277 | 37,690 |
| 1935 | 8,569 | 1,503 | 10,072 | 20,240 | 2,833 | 23,073 | --- | 38,105 | 22,450 | 15,655 | 32,767 |
| 1936 | 30,406 | 1,510 | 31,916 | 17,569 | 10,526 | 28,096 | --- | 39,321 | 3,080 | 36,241 | 39,426 |
| 1937 | 69,876 | 1,307 | 71,184 | 44,444 | 10,326 | 54,771 | --- | 91,306 | --- | 91,306 | 70,690 |
| 1938 | 58,434 | 1,364 | 59,799 | 12,806 | 9,266 | 22,072 | --- | 82,273 | --- | 82,273 | 90,904 |
| 1939 5/ | 26,370 | 996 | 27,366 | 856 | 19,433 | 20,289 | --- | 44,496 | --- | 44,496 | 85,432 |

Continued -

Table 10.- Whale oil, crude: Production, trade, stocks December 31, and apparent disappearance, 1911-39 - Continued

Compiled as follows:

Production -

1911-20, from Economics of The Whaling Industry with Relationship to the Convention for the Regulation of Whaling. Senate Committee Print (Special Committee on the Conservation of Wildlife Resources), 73rd Congress, 2nd Session. Primary sources: Alaska, principally from reports collected by the Bureau of Fisheries; Washington, from the Pacific Fisherman; California, from the Journal of Mammalogy, Feb. 1931, except for 1918, which is from the Pacific Fisherman. Reported in gallons; converted to pounds using 7.5 pounds per gallon.

1921-39, from reports of the Fish and Wildlife Service (Bureau of Fisheries for years prior to 1939): Canned Fishery Products and Byproducts of the United States and Alaska, and Manufactured Fishery Products of the United States and Alaska. Reported in gallons; converted to pounds using 7.74 pounds per gallon for Atlantic and Gulf Coasts and 7.50 for Pacific Coast.

Foreign trade -

1911-17, Quarterly Reports of Imported Merchandise Entered for Consumption in the United States and Duties Collected Thereon.

1918-39, Foreign Commerce and Navigation of the United States. Exports reported only for 1922-24 as whale oil; assumed to include sperm-whale oil.

Reported in gallons; converted to pounds using 7.5 pounds per gallon.

Stocks -

Total, from Bureau of the Census, Animal and Vegetable Fats and Oils.

Stocks in bonded warehouses, 1926-33, Monthly Summary of Foreign Commerce of the United States; 1934-36, official records of the Bureau of Foreign and Domestic Commerce. Not reported since 1936.

Apparent disappearance computed from data on production, trade, and stocks.

1/ Total of unrounded numbers.
2/ Includes sperm-whale oil, calendar years 1911, 1912, and Jan.-Sept. 1913.
3/ Oct.-Dec., included with whale oil prior to Oct. 4, 1913.
4/ Includes total production of oil in California,which may include some sperm-whale oil.
5/ Preliminary.

## Table 11.-Seal oil: Production, imports, and apparent disappearance, 1912-39 1/

| Calendar year | Production, United States and Alaska | Imports for consumption | Apparent disappearance |
|---|---|---|---|
| | 1,000 lb. | 1,000 lb. | 1,000 lb. |
| 1912 | --- | 2 | 2 |
| 1913 | --- | 877 | 877 |
| 1914 | --- | 3,995 | 3,995 |
| 1915 | --- | 198 | 198 |
| 1916 | --- | 6,473 | 6,473 |
| 1917 | --- | 1,897 | 1,897 |
| 1918 | --- | 4,694 | 4,694 |
| 1919 | --- | 173 | 173 |
| 1920 | --- | 98 | 98 |
| 1921 | --- | 3,080 | 3,080 |
| 1922 | --- | 2,713 | 2,713 |
| 1923 | --- | 3,806 | 3,806 |
| 1924 | --- | 3,630 | 3,630 |
| 1925 | --- | 2,737 | 2,737 |
| 1926 | --- | 4,881 | 4,881 |
| 1927 | --- | 4,719 | 4,719 |
| 1928 | --- | 1,461 | 1,461 |
| 1929 | --- | 4,731 | 4,731 |
| 1930 | --- | 3,352 | 3,352 |
| 1931 | --- | 599 | 599 |
| 1932 | --- | 453 | 453 |
| 1933 | --- | 795 | 795 |
| 1934 | --- | 257 | 257 |
| 1935 | --- | --- | --- |
| 1936 | 178 | 4 | 182 |
| 1937 | 220 | 93 | 313 |
| 1938 | 224 | 2/ | 224 |
| 1939 3/ | 210 | --- | 210 |

Compiled as follows:

Production, from reports of the Fish and Wildlife Service (Bureau of Fisheries for years prior to 1939): Canned Fishery Products and Byproducts of the United States and Alaska, and, Manufactured Fishery Products of the United States and Alaska.

Imports-

1912-17, Quarterly Reports of Imported Merchandise Entered for Consumption in the United States and Duties Collected Thereon.

1918-39, Foreign Commerce and Navigation of the United States.

Production and imports reported in gallons; converted to pounds using 7.5 pounds per gallon.

Apparent disappearance computed from data on production and imports.

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1/ Stocks or exports, if any, are not reported.

2/ Less than 500 pounds.

3/ Preliminary.

Table 12.- Oleomargarine: Production and materials used in manufacture, United States, October 1938 and 1939, August - October 1940

| Item | October | | 1940 1/ | | |
|---|---|---|---|---|---|
| | 1938 | 1939 | Aug. | Sept. | Oct. |
| | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds | 1,000 pounds |
| Production: | | | | | |
| Colored | 119 | 150 | 183 | 214 | 215 |
| Uncolored | 30,972 | 23,635 | 21,481 | 26,328 | 29,945 |
| Total 2/ | 31,091 | 23,785 | 21,664 | 26,542 | 30,160 |
| Materials used: | | | | | |
| Oleo oil | 1,026 | 620 | 1,122 | 1,240 | 1,159 |
| Oleostearine | 344 | 236 | 283 | 282 | 347 |
| Lard, neutral | 110 | 88 | 313 | 426 | 427 |
| Oleo stock | 122 | 71 | 98 | 95 | 107 |
| Monostearine | --- | --- | --- | 18 | 20 |
| Total, animal | 1,602 | 1,015 | 1,816 | 2,061 | 2,060 |
| Cottonseed oil | 10,380 | 8,689 | 8,275 | 9,956 | 11,827 |
| Soybean oil | 3,938 | 5,982 | 5,497 | 7,505 | 8,664 |
| Peanut oil | 215 | 197 | 140 | 153 | 185 |
| Corn oil | --- | 22 | --- | 1 | 19 |
| Cottonseed stearine | --- | --- | 1 | --- | 1 |
| Soybean stearine | 11 | --- | --- | --- | --- |
| Total, domestic vegetable | 14,544 | 14,890 | 13,913 | 17,715 | 20,696 |
| Coconut oil | 8,420 | 2,167 | 1,180 | 1,142 | 1,464 |
| Babassu oil | 638 | 988 | 446 | 331 | 138 |
| Palm-kernel oil | 75 | --- | --- | --- | --- |
| Total, foreign vegetable | 9,133 | 3,155 | 1,626 | 1,473 | 1,602 |
| Total, fats and oils | 25,279 | 19,060 | 17,355 | 21,249 | 24,358 |
| Milk | 6,247 | 4,538 | 4,179 | 5,118 | 5,545 |
| Salt and other miscellaneous | 1,476 | 1,116 | 938 | 1,112 | 1,222 |

Compiled from Internal Revenue records and Internal Revenue Bulletin.

1/ Preliminary.
2/ Total of unrounded numbers.